

10/587927

IAP11 Rec'd PCT/PTO 01 AUG 2006

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/03369

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C12Q 1/02, 1/04 US CL : 435/29, 34 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 435/29, 34 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched registry Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	STAHL, P.D. Microbial Production of Volatile Organic Compounds in Soil Microorganisms. Soil Science Society of America Journal. May-June 1996, Volume 60, Number 3, Pages 821-828, especially abstract and Figure 1	1-49
A --- Y	US 5,830,696 A (Short, J.M.) 03 November 1998 (03.11.1998), Entire document. Especially, Column 1, Line 1 to Column 2, Line 42; Column 4, Line 6-38; Column 6, Line 20 to Column 10, Line 26.	1-38 ----- 39-45, 48-49
A --- Y	Isola, N.R. et al. MALDI-TOF Mass Spectrometric Method for Detection of Hybridized DNA Oligomers. Analytical Chemistry, May 1, 2001, Volume 73, Number 9, Pages 2126-2131, Entire zDocument, especially Page 2126, Column 2, Lines 17-25.	1-38 ----- 39-45, 48-49
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents:		
"A"	document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed	
Date of the actual completion of the international search 08 August 2005 (08.08.2005)		Date of mailing of the international search report 24 AUG 2005
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Authorized officer <i>Jamulit Shukla</i> Dr. Kailash C. Srivastava Telephone No. (703)-308-0196

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Continuation of B. FIELDS SEARCHED Item 3:

WEST:

DWPI, EPAB, JPAB, USOC, USPT

STN:

AGRICOLA, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CONFSCI, DISSABSTR, EMBASE, ESBIODASE, FEDRIP, FOMAD, FROSTI, IFIPAT, JICST-EPLUS, LIFESCI, MEDLINE, PROMPT, RDISCLOSURE, SCISEARCH, USPATFULL, WPIDS.

Search Strategy:

identif\$, collect\$, screen\$, analyze, analys\$, microbiota, microb\$, microorganisms, bacteria, fungi, yeast, actinomyces, microcosm, sample, sampl\$, capillary bioreactor, mass spectrometry, MALDI-TOF, MALDI TOF, Capillary device, flask, tube, capillary tube, serum vial, hollow fiber bioreactor, upflow bioreactor, bioreactor, microbioreactor, environmental microcosm, environmental sample, monitor\$, microenvironment, microbi\$ taxonomy, bioprospecting,